



# FLAMINGO

Forest fires are one of the main threats existing nowadays in many countries all around the world. Every year a surface equivalent to the size of Portugal is lost in forest fires, despite the big efforts and means that are directly allocated for prevention and suppression (e.g. 150000 Ha and 2000MEUR/year only in Spain). In addition, there is an extra cost very difficult to evaluate: loss of lives, CO<sub>2</sub> emissions (up to 20% per year worldwide), desertification, etc...



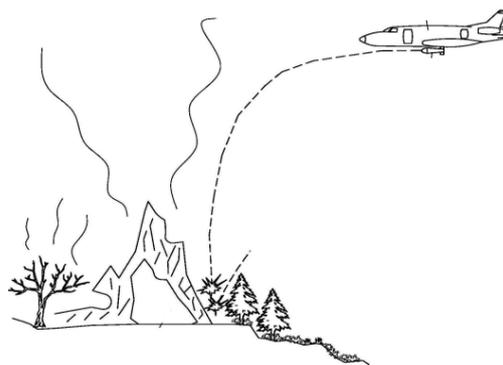
Flamingo (Forest Flames Intelligent Outputter) is an intelligent civil bomb. It is launched in groups from any cargo aircraft at a safe altitude; they individually glide and seek their targets along the fire front with the aid of GPS and other sensors contained in a recyclable control unit. Each Flamingo also has a single-use deposit with 200 liters of optimized retardant to extinguish the fire.

Flamingo has been specially designed to reach inaccessible locations, act in the presence of severe winds and during nighttime and optimize the suppression avoiding evaporation along the plume.

## How does it work?

Flamingo is compatible with most of the existing cargo aircraft and it does not require any modification, thus avoiding the necessity of having dedicated aircraft for fire extinguishing purposes therefore sharing operational costs with other aircraft uses.

Once onboard, a mission system running on a laptop engages each unit to an individual target along the fire front. This command is sent to every unit a little time before launching. This mission system also helps the crew reach the launch window, region from which Flamingo can reach its target. Before entering this window, the rear door is open. Every unit is launched before exiting the window.





# Technical Information

<b>Performance</b>	
Range (from 13000ft)	3500m
Precision	10m
Capacity	200 l
Surface	100 m <sup>2</sup>
Retardant	Any compatible with polyethylene
<b>Dimensions and weights</b>	
Length	2.65m
Diameter	0.4m
Empty weight	21.7kg
<b>Launch system</b>	
Pallet	463 L
Number of units per pallet	4
Number of pallets	Unlimited (1 on ramp)
Pallet + launch system weight	350kg
<b>Launching configuration</b>	
Launching platform	Any with rear port and 463L compatible (e.g. C-295)
Launch speed	<160 kts
Altitude	8000ft-13000ft
Pitch angle at launch	>5deg

